# SUMMARY SHEET

Total Maximum Daily Load (TMDL) Development for the Big Wateree Watershed

## 1. 303(d) Listed Waterbody Information

| | |
|---|---|
| State | South Carolina |
| County | Fairfield |
| Major River Basin | Catawba-Wateree |
| Watershed | Big Wateree Creek |
| Constituent(s) Causing Impairments | Turbidity |
| Designated Uses | Aquatic Life |
| HUC | 03050104-020-010 |

**Impaired Stations (2002 Section 303(d) List):**

| Station | Station Location |
|---|---|
| CW-072 | Big Wateree Creek at US-21 |

Applicable turbidity water quality criteria for aquatic life:

Not to exceed 50 NTUs provided existing uses are maintained.(R.61-68).

## 2. TMDL Development

Analysis/Modeling:

Turbidity cannot be converted to a load. Instead total suspended solids (TSS), which can be related to turbidity, is used instead. A load-duration curve was used to develop the Big Wateree Creek turbidity TMDL. The curve was based on flow from a nearby, gauged watershed and TSS, which was calculated from turbidity. The load-duration curve represented the historical range of hydrologic conditions.

Critical Conditions:

The TMDL represents an average of all hydrologic conditions and seasons.

Seasonal Variation:

All seasons are protected by the TMDL because the analysis included 49 years of hydrologic data of all seasons.

3. Turbidity Allocations by Impaired Station

| Impaired Station | WLA (kg- TSS/day) | LA (kg-TSS/day) | MOS[a] (kg-TSS/day) | TMDL (kg-TSS/day) | Percent Reduction[b] |
|---|---|---|---|---|---|
| CW-072 | 3.9 | 2150 | 113 | 2263 | 70 % |

Notes:
[a] An explicit and implicit margin of safety (MOS) was applied.
[b] The percent reduction for TSS loads is based on the existing and TMDL conditions.

4. Public Notice Date:

5. Submittal Date:

6. Establishment Date:

7. Endangered Species (yes or blank):

8. EPA Lead on TMDL (EPA or blank):

9. TMDL Considers Point Source, Nonpoint Source, or Both: Both

10. NPDES Discharges of Fecal Coliform Bacteria: One